

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P855694

Luminaire Tested: **18SFS-L3C4-NUV-LOW-5000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (BL231218005-9)
Test Lab: INNOVATION CENTER
Issue Date: 7/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 18SFS-L3C4-NUV-LOW-5000K
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,
LOW Lumen and 5000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

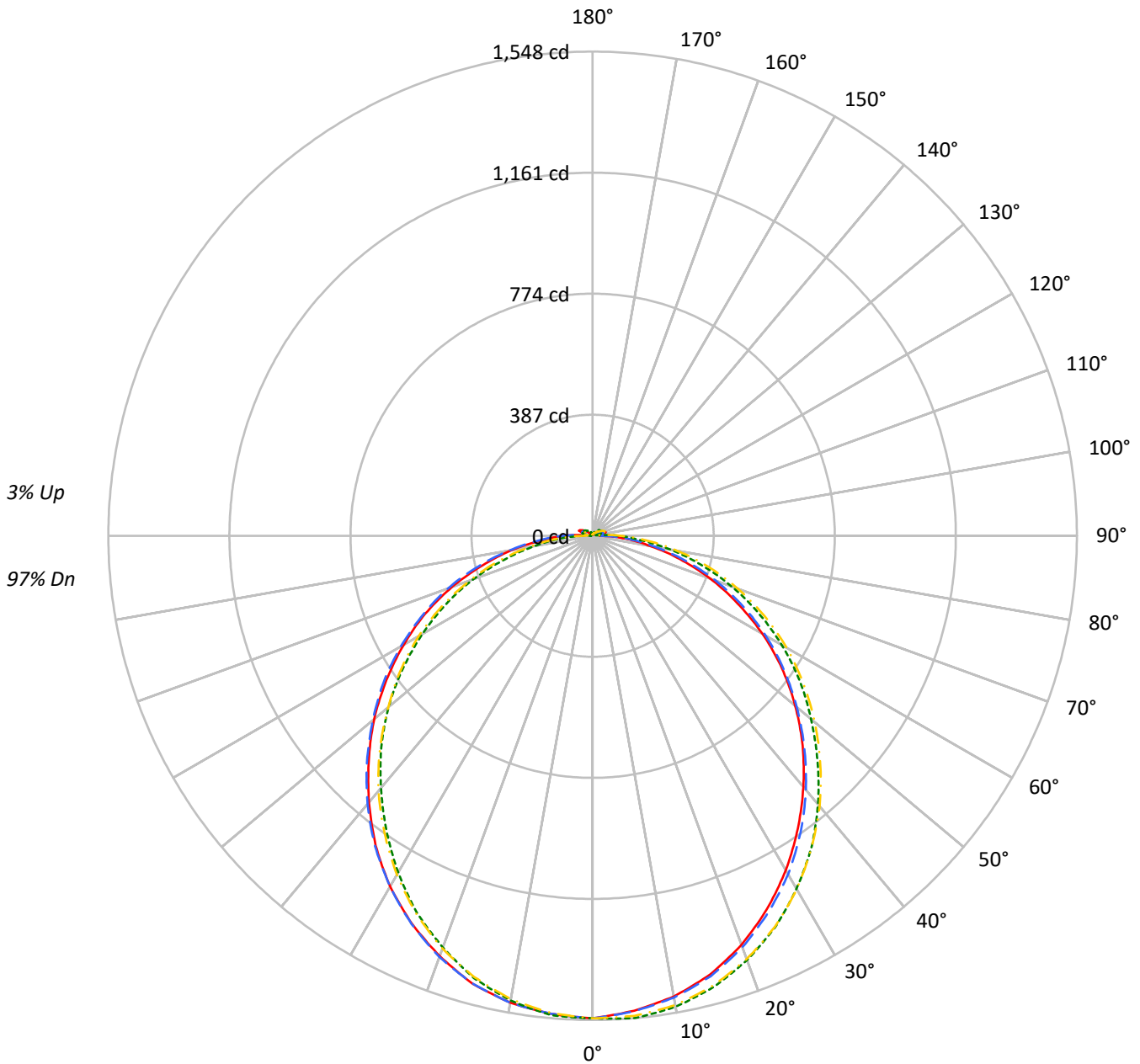
Lumens per Lamp: N/A
Luminaire Lumens: 4584.0 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')
CIE Type: Direct

Input Watts (W): 31
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	97	89	82	76	94	86	80	74	82	77	72	79	74	70	75	71	68	68	68	66																	
3	89	78	69	63	86	76	68	62	72	66	60	69	64	59	66	61	57	57	57	55																	
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49	49	49	47																	
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43	43	43	40																	
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	38	38	35																	
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	33	33	31																	
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	30	30	28																	
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	27	27	25																	
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2315	2315	2315	2315
5°	2296	2332	2311	2317
10°	2279	2330	2310	2299
15°	2256	2321	2303	2275
20°	2223	2305	2284	2236
25°	2182	2286	2265	2202
30°	2140	2258	2243	2154
35°	2095	2233	2215	2106
40°	2053	2196	2178	2061
45°	2014	2157	2147	2027
50°	1974	2127	2128	1987
55°	1933	2115	2104	1937
60°	1881	2095	2092	1884
65°	1814	2077	2096	1835
70°	1752	2075	2095	1774
75°	1671	2077	2105	1676
80°	1595	2166	2249	1608
85°	1792	2548	2731	1837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.2
10°-20°	414.8	9.0
20°-30°	622.2	13.6
30°-40°	740.9	16.2
40°-50°	762.5	16.6
50°-60°	695.8	15.2
60°-70°	553.2	12.1
70°-80°	355.7	7.8
80°-90°	153.1	3.3
90°-100°	31.9	0.7
100°-110°	32.8	0.7
110°-120°	30.9	0.7
120°-130°	20.0	0.4
130°-140°	11.9	0.3
140°-150°	6.7	0.1
150°-160°	3.9	0.1
160°-170°	1.6	0.0
170°-180°	0.4	0.0
0°-30°	1182.6	25.8
0°-40°	1923.5	42.0
0°-60°	3381.8	73.8
0°-90°	4443.8	96.9
90°-120°	95.6	2.1
90°-150°	134.2	2.9
90°-180°	140.0	3.1
0°-180°	4584.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1543	1543	1543	1543	1543	
5°	1524	1548	1534	1538	1524	145
15°	1452	1494	1483	1464	1452	409
25°	1318	1381	1368	1330	1318	607
35°	1143	1219	1209	1150	1143	716
45°	949	1016	1012	955	949	732
55°	739	808	804	740	739	660
65°	511	585	590	517	511	507
75°	288	358	363	289	288	306
85°	104	148	159	107	104	101
90°	23	83	94	18	23	23
95°	20	22	24	4	20	17
105°	43	28	29	33	43	39
115°	30	36	43	28	30	29
125°	11	29	26	29	11	11
135°	8	25	10	22	8	6
145°	4	16	4	15	4	3
155°	4	13	4	12	4	2
165°	4	6	4	6	4	1
175°	4	4	4	5	4	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6
5°	1524.2	1521.6	1525.8	1525.8	1547.9	1538.5	1540.4	1540.9	1534.0	1528.9	1533.8
10°	1495.5	1492.0	1499.0	1498.3	1529.1	1521.8	1523.5	1522.5	1515.7	1510.3	1516.0
15°	1452.1	1448.5	1457.9	1455.3	1493.9	1487.3	1488.7	1488.5	1482.6	1476.5	1482.1
20°	1391.9	1391.4	1399.9	1398.7	1443.4	1437.7	1440.1	1440.8	1430.0	1427.6	1432.8
25°	1317.7	1323.6	1328.7	1327.1	1380.9	1375.7	1379.0	1378.8	1368.0	1368.9	1369.6
30°	1235.0	1243.2	1249.8	1244.9	1303.1	1302.4	1304.8	1302.9	1294.7	1296.8	1295.1
35°	1143.4	1152.5	1158.6	1153.5	1218.8	1216.7	1219.2	1219.2	1208.9	1208.4	1212.4
40°	1048.0	1054.8	1060.9	1057.9	1120.8	1122.5	1129.0	1124.1	1112.1	1117.5	1119.4
45°	949.1	954.3	956.4	953.3	1016.3	1022.4	1029.2	1024.3	1011.6	1018.6	1019.8
50°	845.5	849.2	852.1	848.8	911.3	921.1	926.8	921.8	911.5	915.5	916.7
55°	738.8	737.9	746.1	745.9	808.4	813.5	821.8	818.7	804.4	808.8	815.4
60°	626.8	629.1	638.8	633.8	698.2	705.2	715.8	710.4	697.0	704.8	707.4
65°	511.0	520.8	528.1	520.8	585.0	599.8	604.5	603.3	590.4	596.7	598.8
70°	399.4	409.5	417.2	405.9	472.9	485.8	493.3	490.3	477.6	484.9	491.7
75°	288.2	300.2	306.1	297.4	358.3	372.1	382.7	376.8	363.0	376.3	378.5
80°	184.6	196.6	201.6	193.1	250.7	265.9	272.3	265.5	260.3	268.8	269.5
85°	104.1	115.3	115.1	108.8	148.0	164.9	172.7	165.6	158.6	169.4	171.3
90°	23.0	24.4	23.7	19.7	82.9	88.1	90.2	95.4	93.7	94.2	94.2
95°	20.4	19.3	15.3	13.9	21.6	20.7	24.2	24.2	24.2	23.5	21.1
100°	20.7	24.4	32.9	21.6	4.9	16.7	18.1	21.6	22.6	20.4	18.6
105°	43.2	40.6	35.2	26.5	27.5	28.2	36.6	37.4	29.1	35.5	34.8
110°	38.8	36.4	28.4	27.7	33.4	35.2	41.1	48.2	46.8	44.4	35.0
115°	30.3	29.4	21.6	26.8	36.2	31.5	38.1	41.8	43.2	41.6	33.8
120°	18.3	19.3	20.7	27.0	30.8	27.3	29.6	35.0	34.3	35.2	27.0
125°	10.8	15.3	18.8	24.9	28.7	24.2	23.7	25.1	26.1	24.2	22.8
130°	8.9	13.9	15.5	22.6	28.0	22.8	21.1	16.7	15.0	17.6	19.5
135°	7.8	12.2	12.7	18.6	24.7	20.9	14.3	13.6	10.3	15.0	13.9
140°	5.9	8.9	11.0	13.9	19.7	16.4	11.7	10.3	8.5	10.3	12.0
145°	4.2	8.0	10.3	12.9	15.7	13.6	11.7	7.0	3.8	8.5	12.0
150°	4.5	7.5	9.4	12.5	13.9	12.7	10.6	6.3	3.8	7.5	11.5
155°	4.2	6.6	8.2	10.6	12.9	11.7	9.4	6.1	4.2	6.8	9.4
160°	4.0	5.4	6.8	8.0	10.3	8.2	7.3	5.2	4.0	5.9	7.5
165°	4.0	4.7	5.9	5.2	6.1	5.9	5.9	4.7	4.0	5.2	6.6
170°	4.0	4.5	4.9	4.2	5.2	4.5	4.7	4.0	4.0	4.5	5.6
175°	4.5	4.2	4.5	4.7	4.5	4.5	4.0	4.0	4.0	4.0	4.5
180°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6
5°	1536.4	1538.5	1528.9	1531.2	1530.5	1524.2
10°	1515.5	1508.9	1499.0	1504.2	1501.9	1495.5
15°	1479.8	1464.3	1457.0	1460.5	1459.3	1452.1
20°	1430.0	1400.4	1399.0	1404.4	1401.8	1391.9
25°	1368.7	1329.7	1327.5	1333.4	1333.2	1317.7
30°	1293.2	1243.0	1248.8	1251.2	1251.9	1235.0
35°	1206.8	1149.5	1158.2	1160.0	1158.9	1143.4
40°	1113.8	1052.2	1059.0	1065.1	1059.0	1048.0
45°	1013.7	955.2	955.4	961.3	957.8	949.1
50°	911.0	851.1	852.5	852.5	852.5	845.5
55°	806.3	740.2	745.6	749.4	746.6	738.8
60°	701.9	627.9	633.1	641.8	634.3	626.8
65°	592.7	516.8	517.8	530.5	524.8	511.0
70°	480.4	404.3	413.2	417.0	409.2	399.4
75°	367.4	289.0	303.3	309.4	297.2	288.2
80°	261.2	186.1	199.4	203.9	194.0	184.6
85°	161.4	106.7	114.4	117.7	111.4	104.1
90°	86.7	18.1	21.6	24.2	24.2	23.0
95°	20.0	3.8	16.9	15.5	19.5	20.4
100°	18.1	27.5	32.7	33.4	22.1	20.7
105°	25.4	33.1	25.6	37.4	39.2	43.2
110°	24.9	30.3	21.6	32.4	36.6	38.8
115°	21.8	28.2	24.2	24.9	28.2	30.3
120°	25.4	31.9	24.2	19.7	18.1	18.3
125°	25.6	29.4	20.9	18.3	13.2	10.8
130°	24.4	25.6	18.3	15.7	11.5	8.9
135°	21.1	22.1	14.6	11.7	10.3	7.8
140°	16.4	16.7	12.9	11.7	6.6	5.9
145°	13.2	15.0	13.4	10.8	6.1	4.2
150°	12.9	14.8	12.2	9.6	5.9	4.5
155°	12.7	12.2	9.9	7.8	5.4	4.2
160°	7.8	7.3	8.2	6.8	4.7	4.0
165°	6.3	6.3	7.0	6.8	4.5	4.0
170°	6.1	5.4	5.6	4.7	4.5	4.0
175°	4.2	5.2	4.5	4.2	4.7	4.5
180°	4.4	4.4	4.4	4.4	4.4	4.4



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)